

Results of contactless and non-invasive analysis: overview

Project: Digitization / Cataloguing of non-textual objects:
Description and Digitization of Precious Book Covers as Independent Works of Art.
Project-Period: 01.10.2014 - 30.09.2017

Shelfmark: Munich, Bayerische Staatsbibliothek, Cod.sanscr. 540

Analytical methods: X-Ray Fluorescence Spectroscopy (XRF): p. 2-7
Fourier Transform Infrared Spectroscopy (FTIR): p. 8-15

Contact: Institute of Conservation and Restoration (IBR)
of the Bayerische Staatsbibliothek, Munich

XRF-Analysis: Mapping of measurement points and spectra

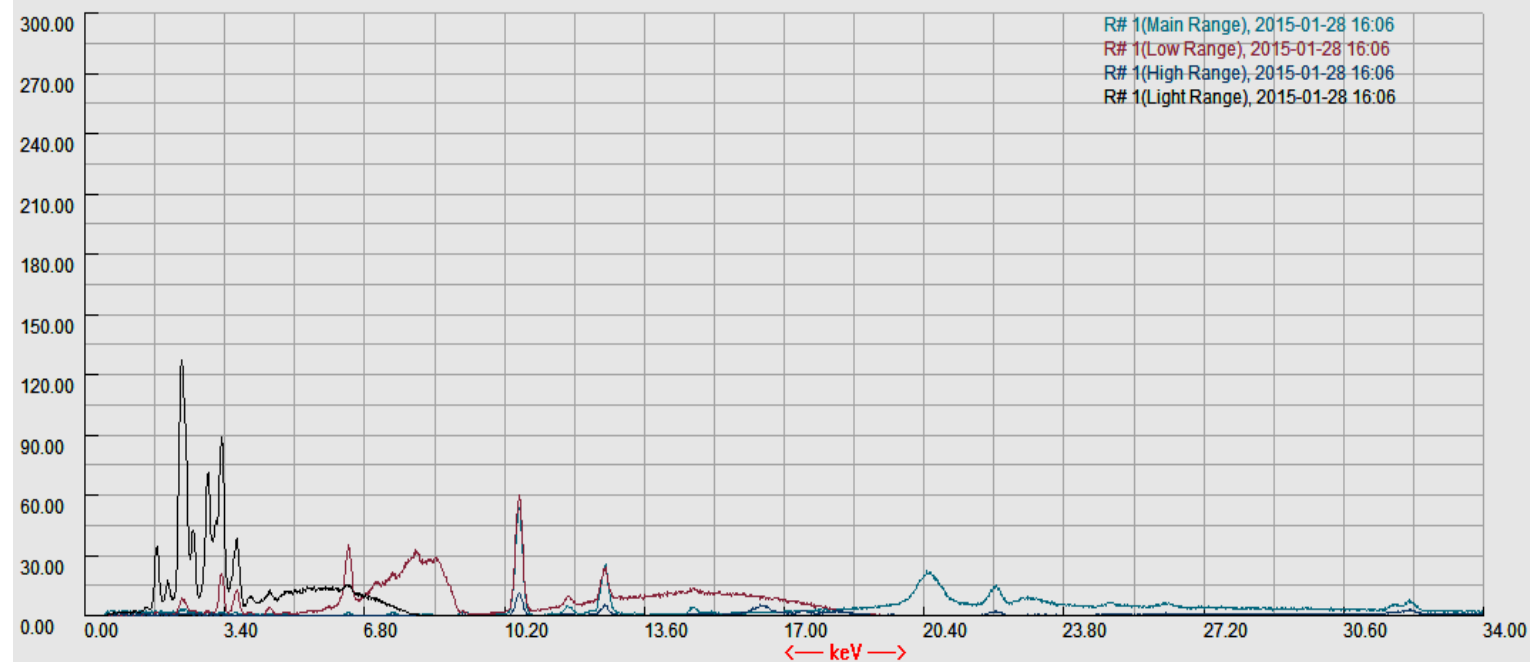
Scanning parameters

Instrument:	NITON XL3t GOLD D+
Scanning mode:	Mining (Cu, Zn)
Spectral resolution:	4 cm ⁻¹
Scan duration:	150 s

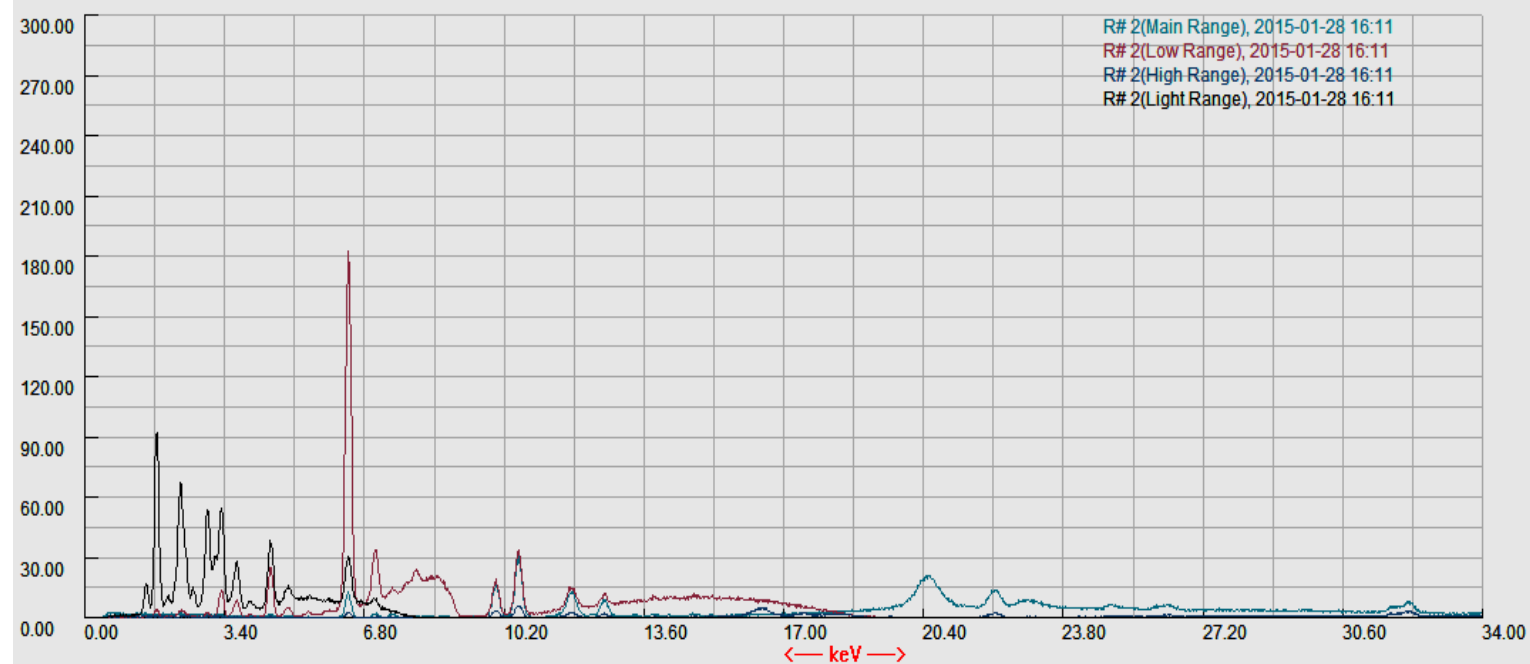
Spectra: #1 ... #10



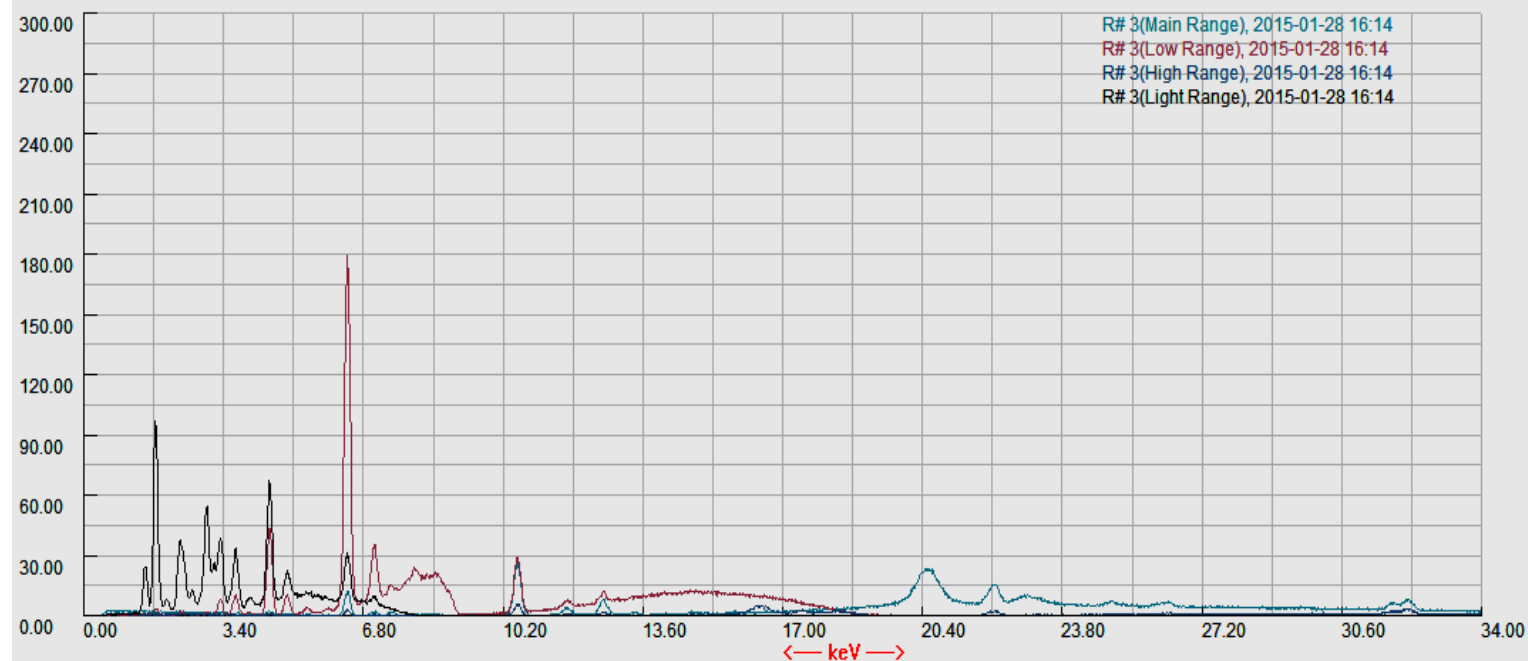
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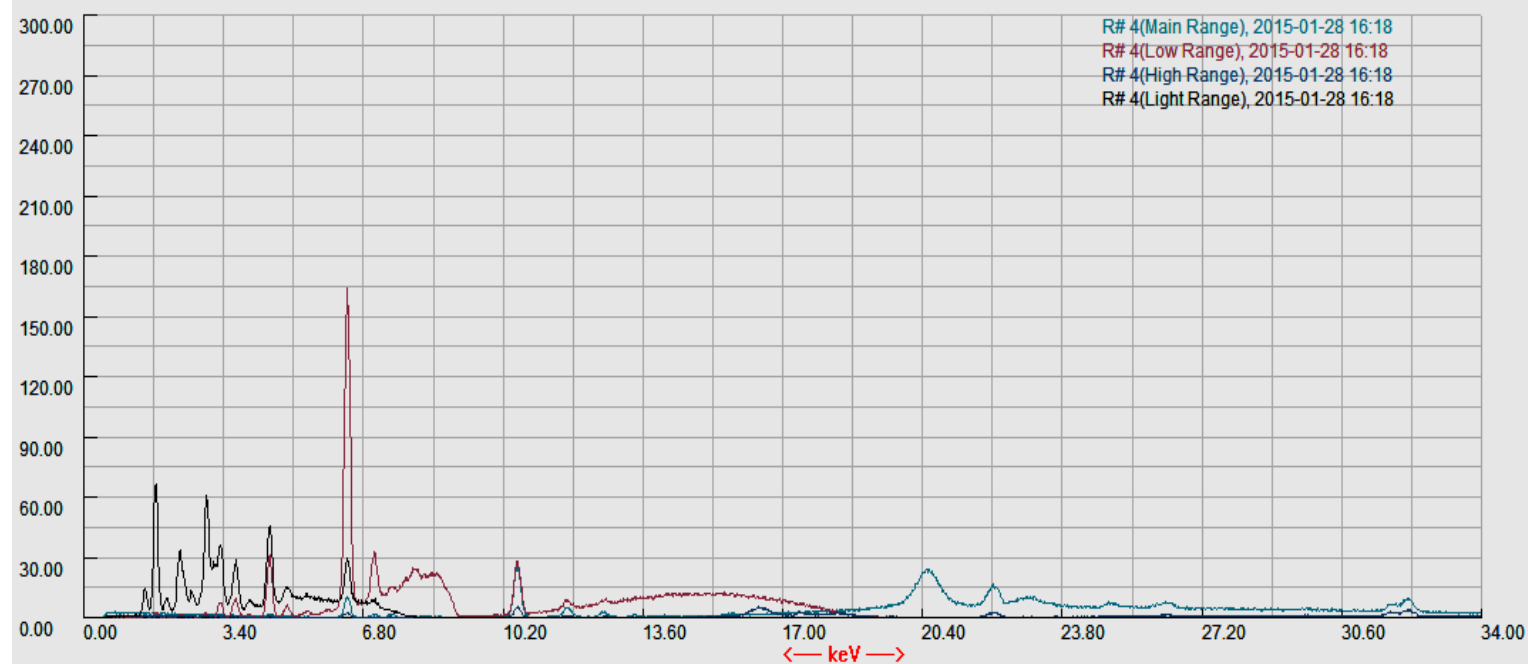
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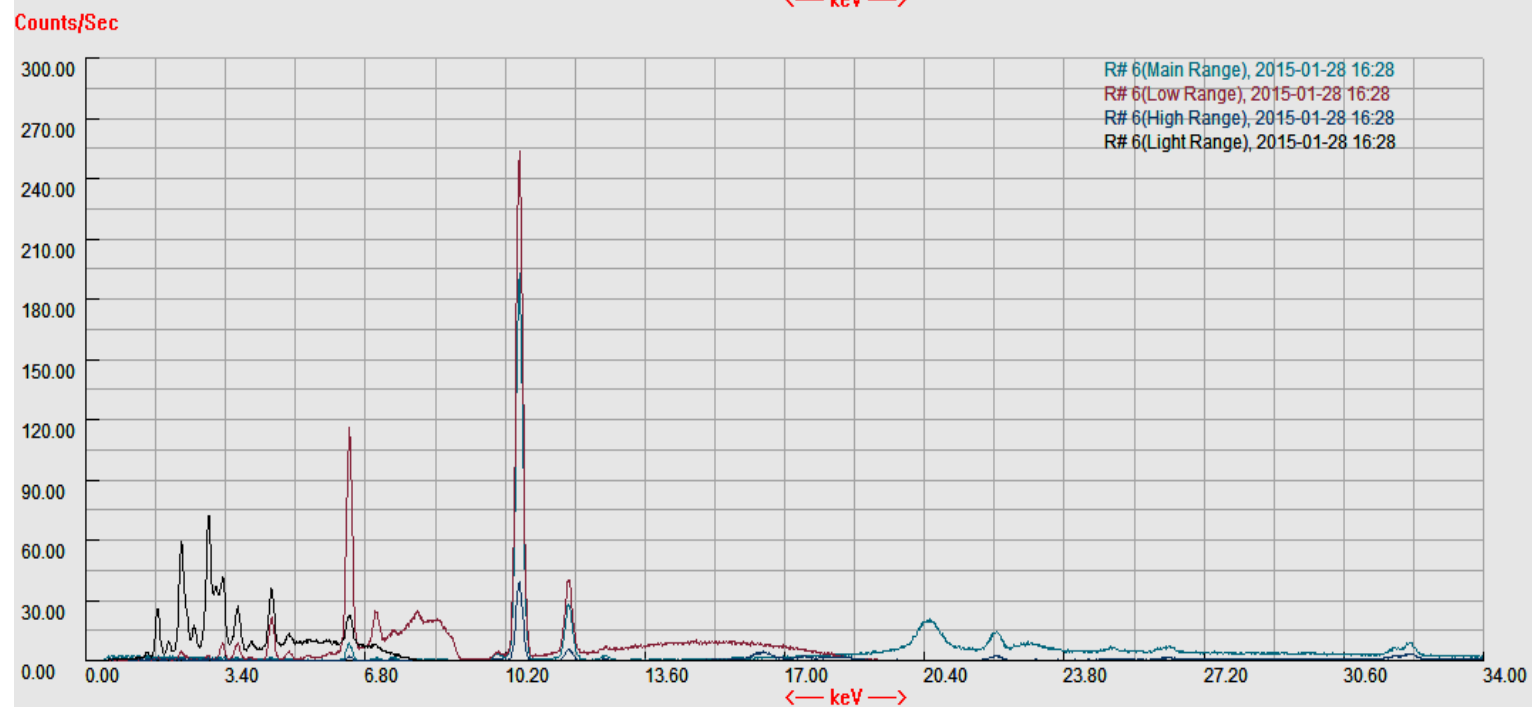
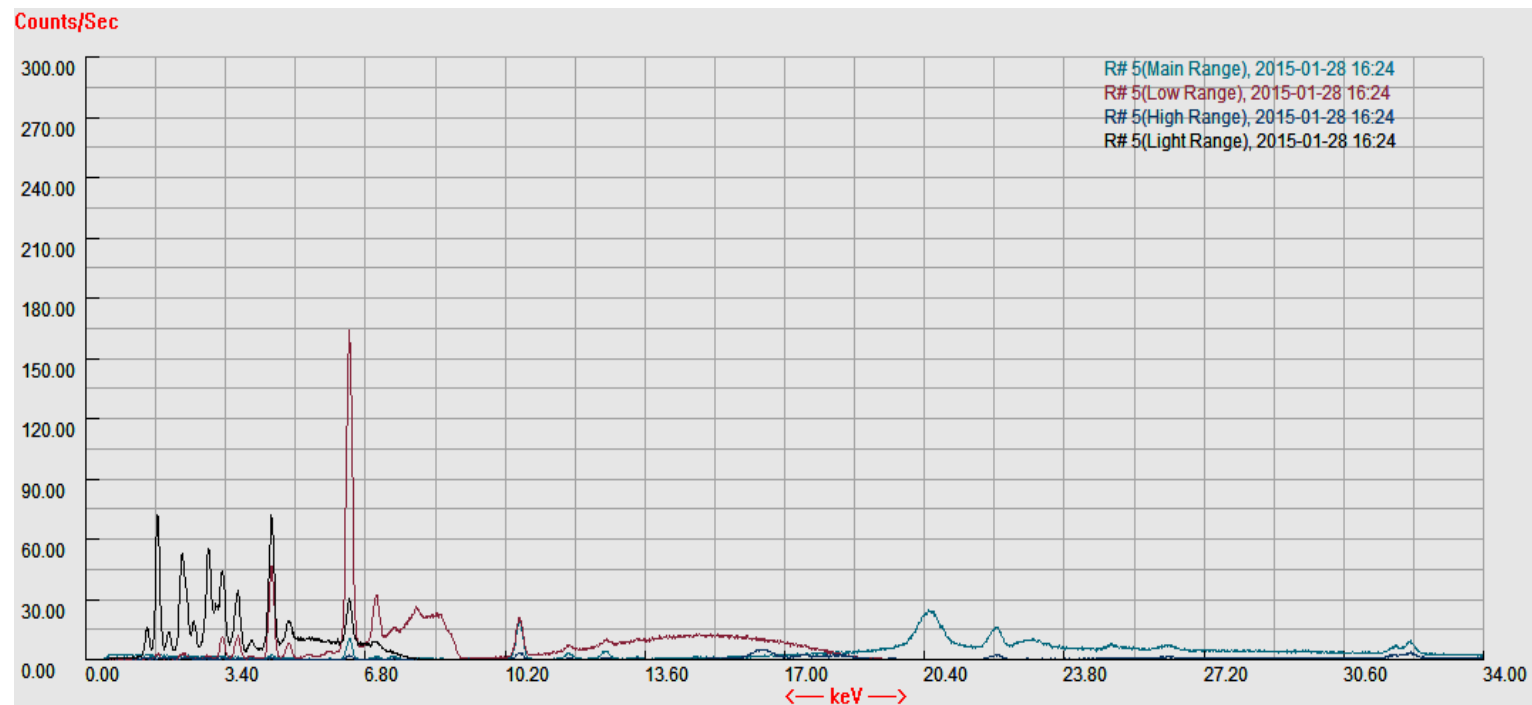


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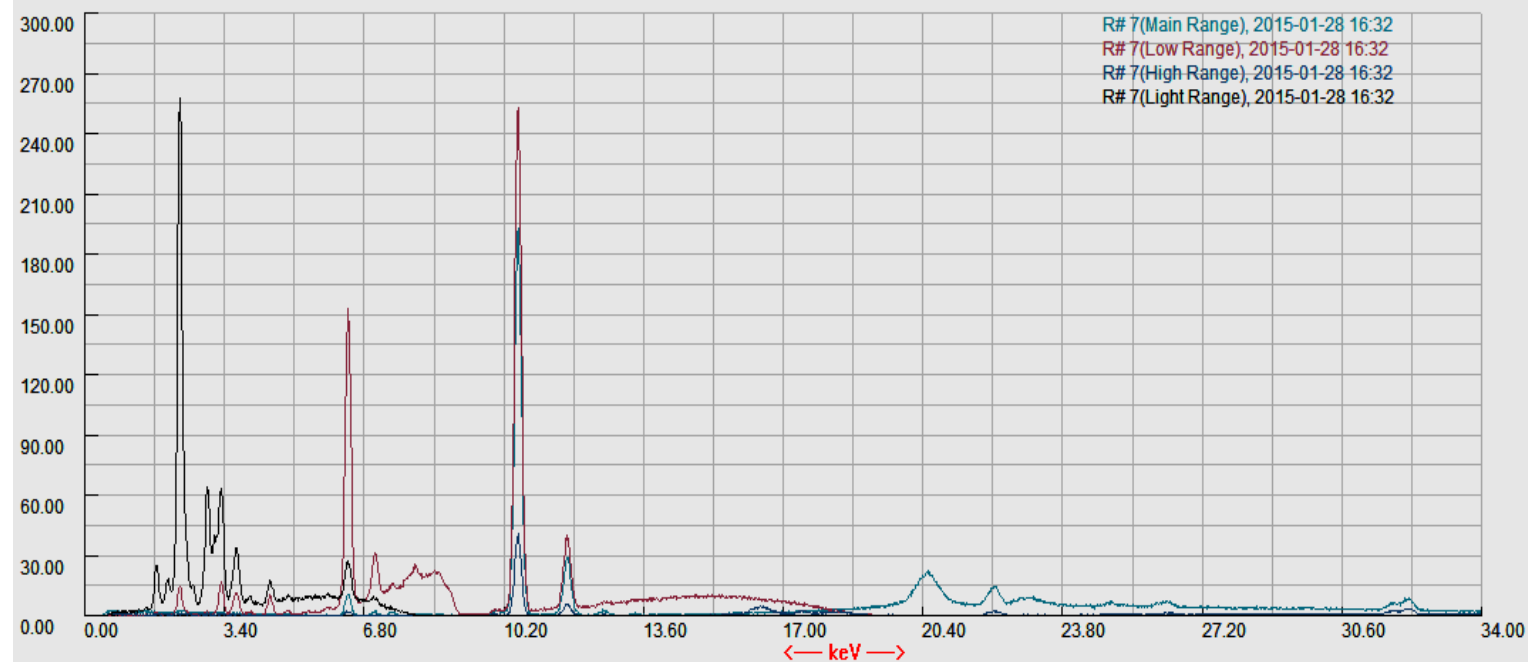


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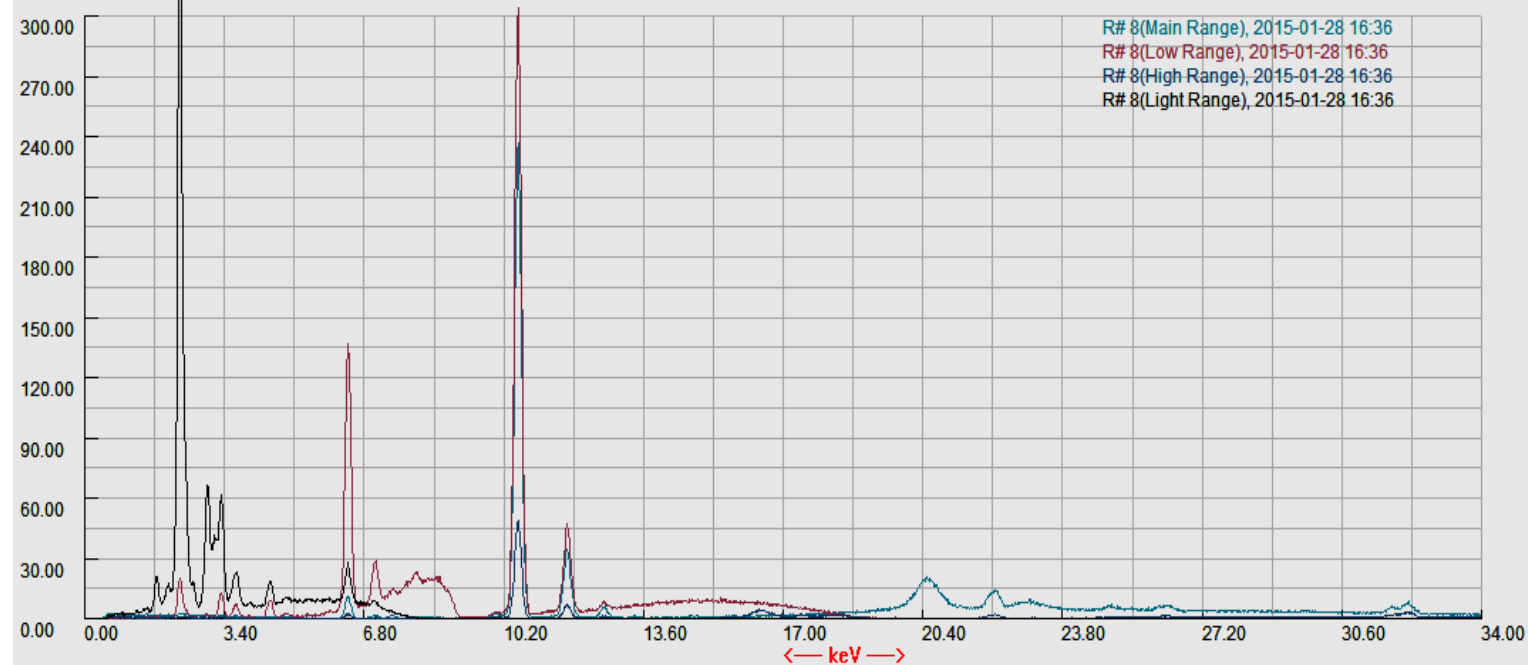




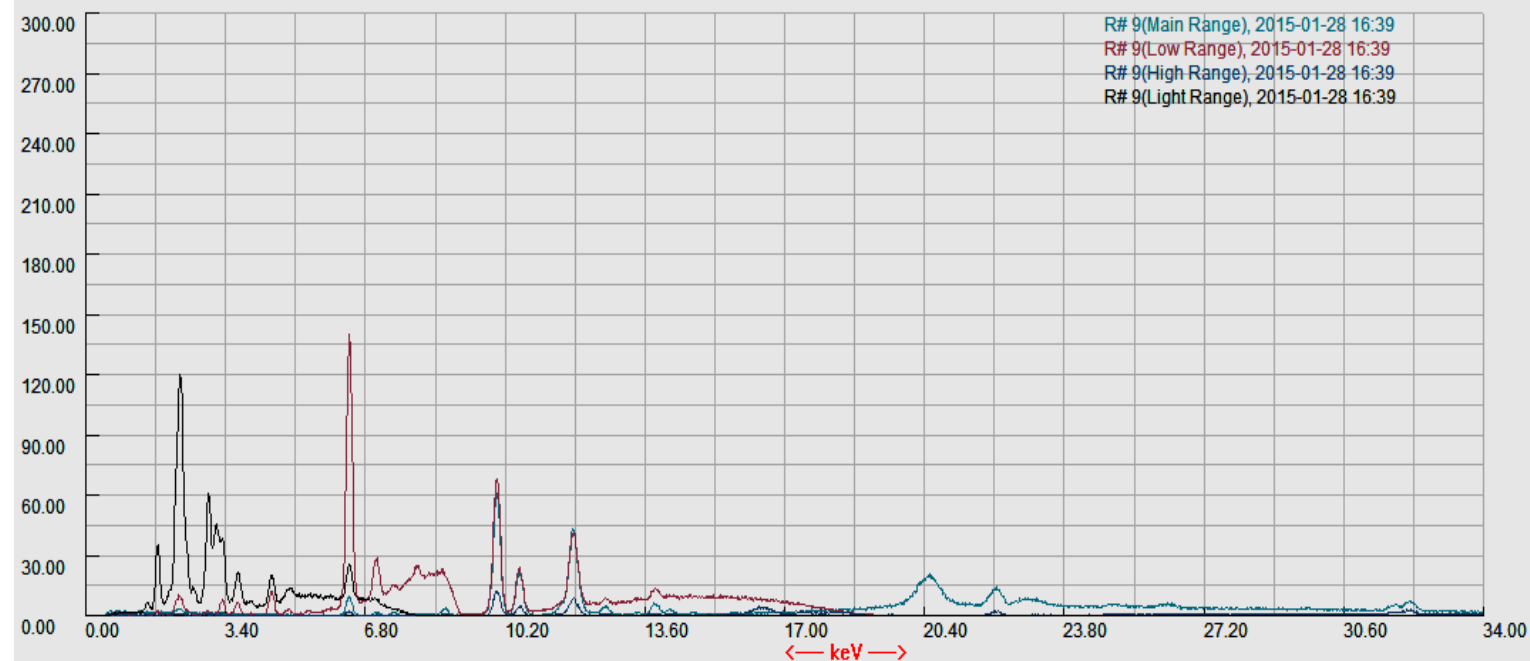
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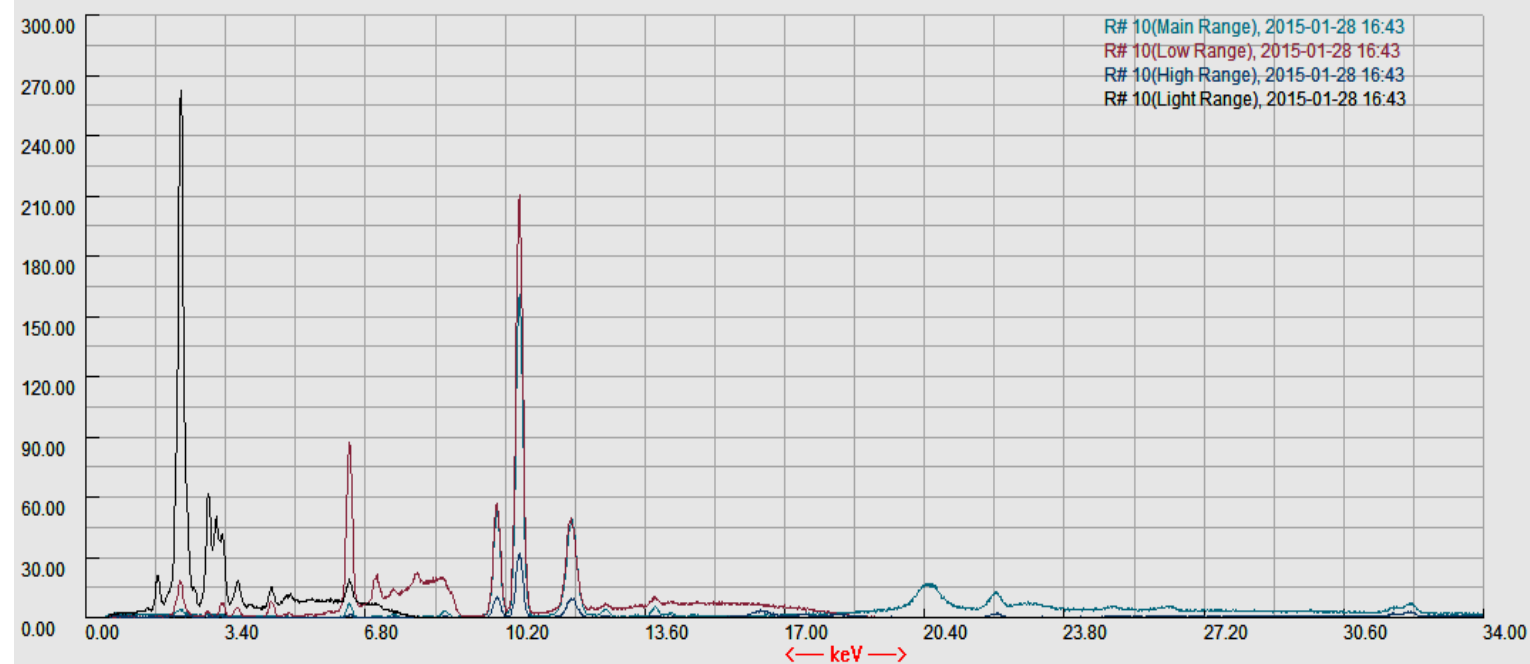
Counts/Sec



Counts/Sec



Counts/Sec



FTIR-Analysis: Mapping of measurement points and spectra

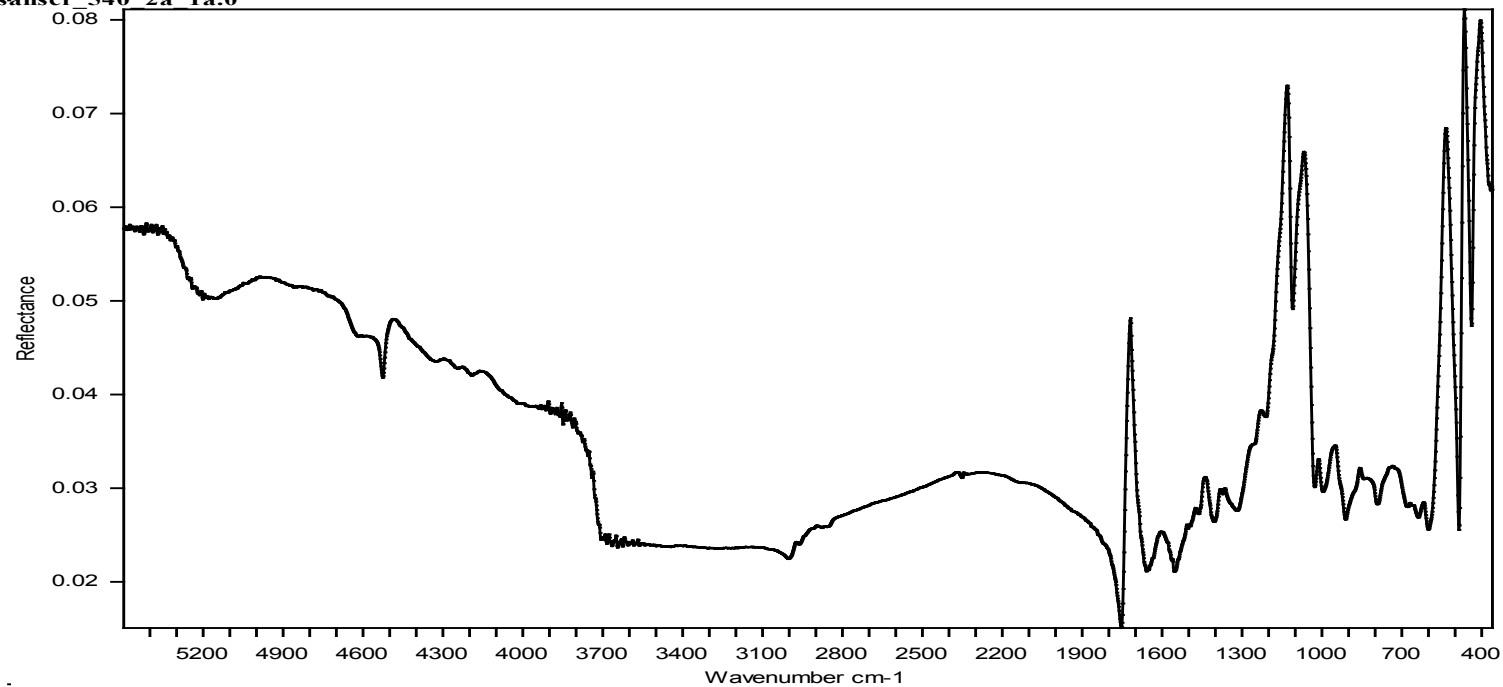
Scanning parameters

Instrument: BRUKER ALPHA
Scanning mode: FTIR external reflection mode
Spectral resolution: 4 cm^{-1}
Spectral range: $360\text{-}5400\text{ cm}^{-1}$
Scan duration: 240 scans

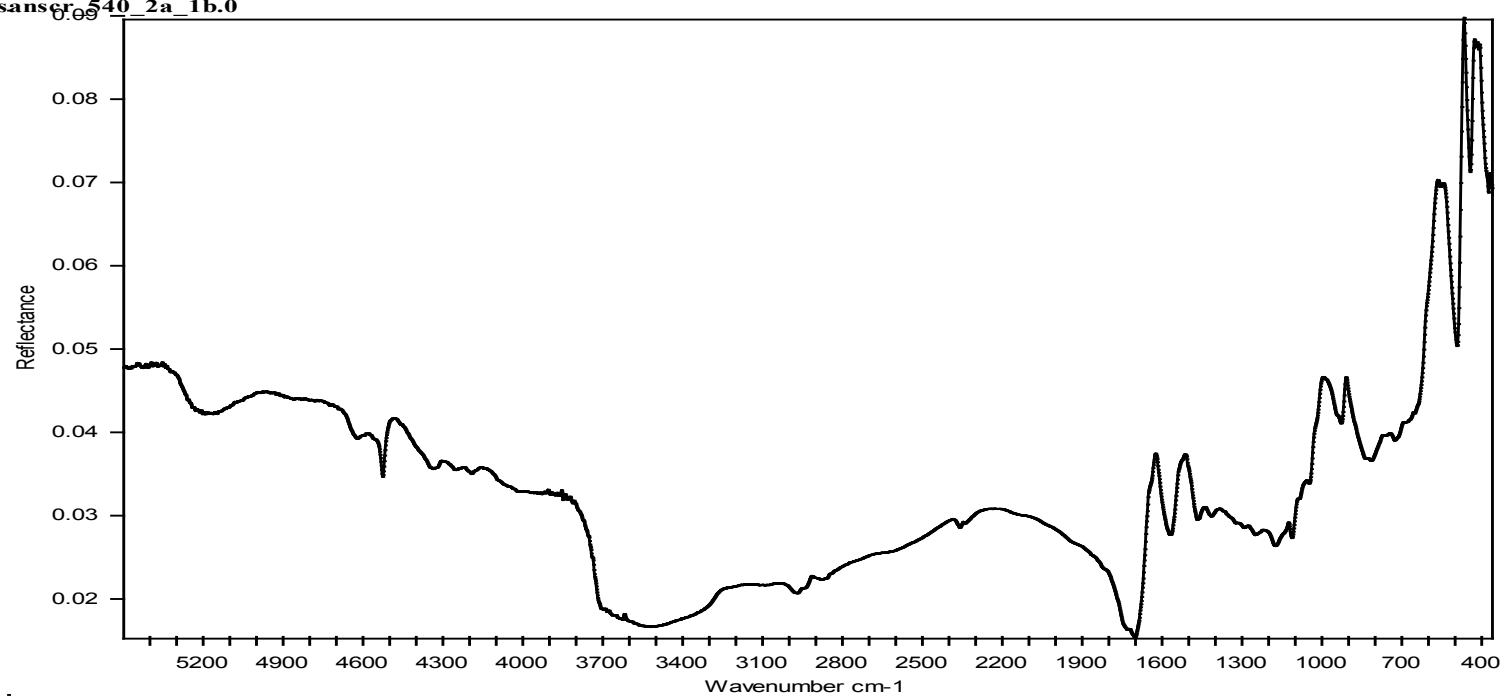
Spectra: sanscr_540_2a_1a ... _1m
(filename description: signature_bookcover 1/2, side a/b_number of scan)



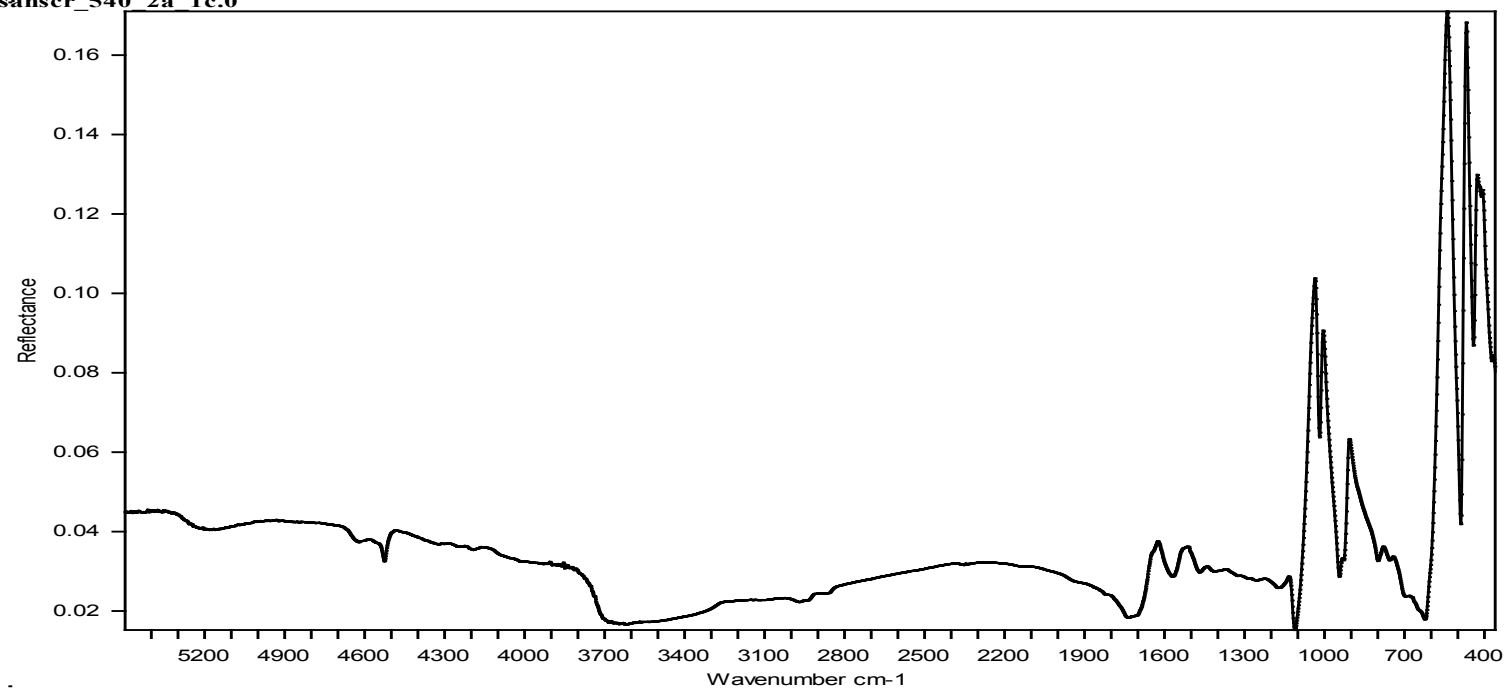
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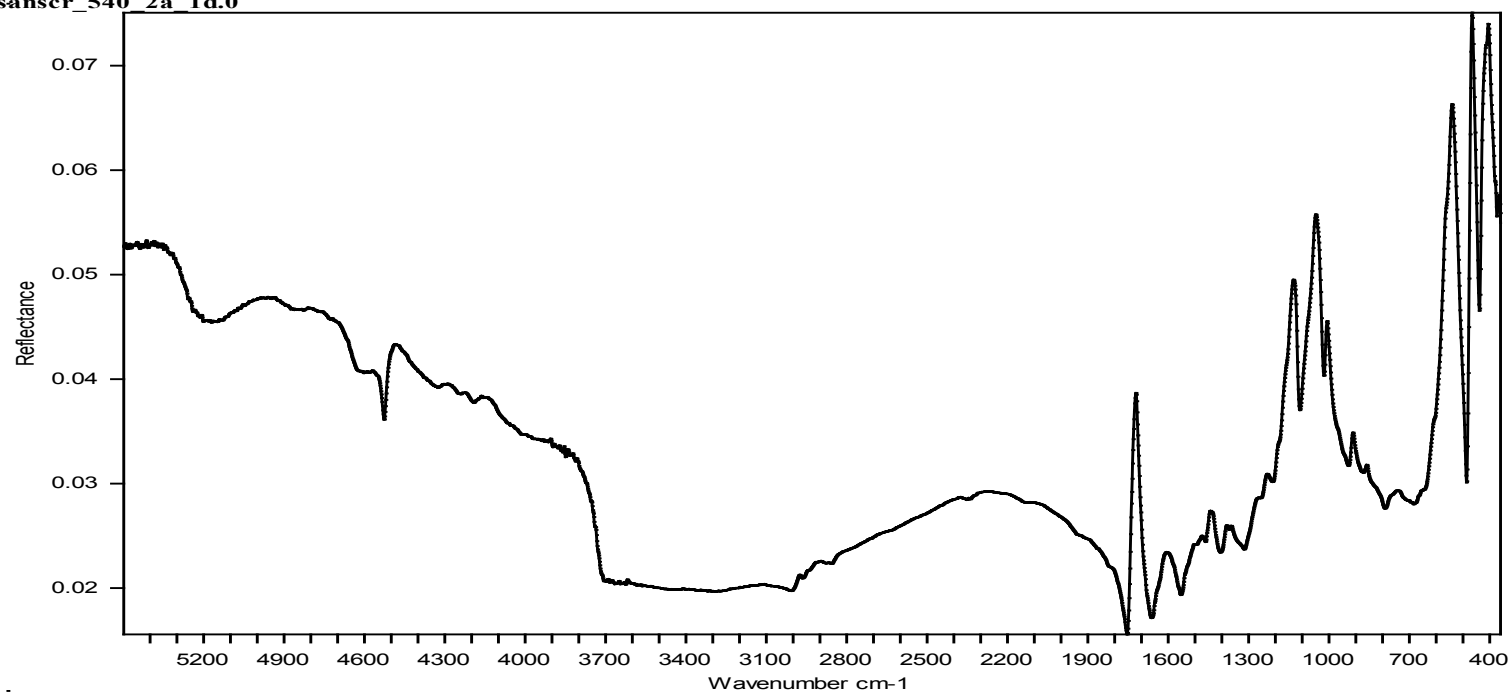
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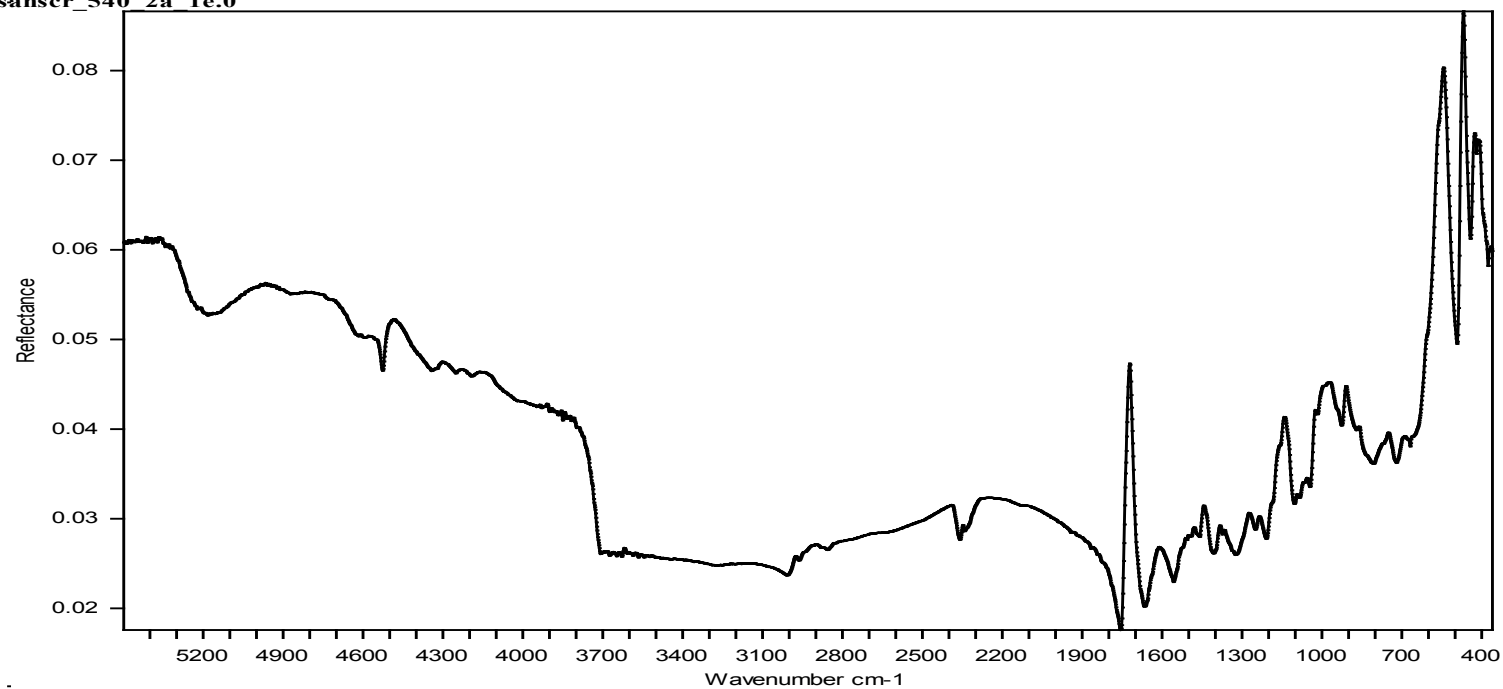
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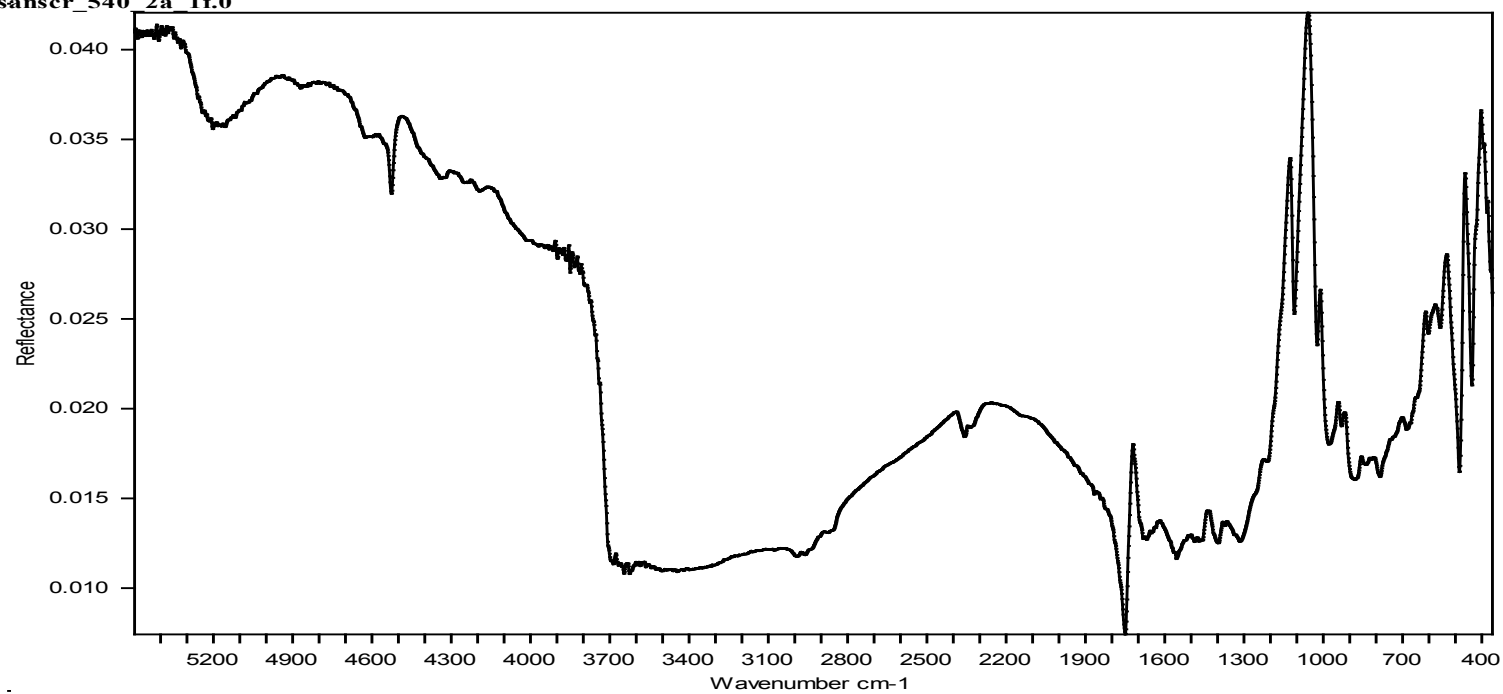
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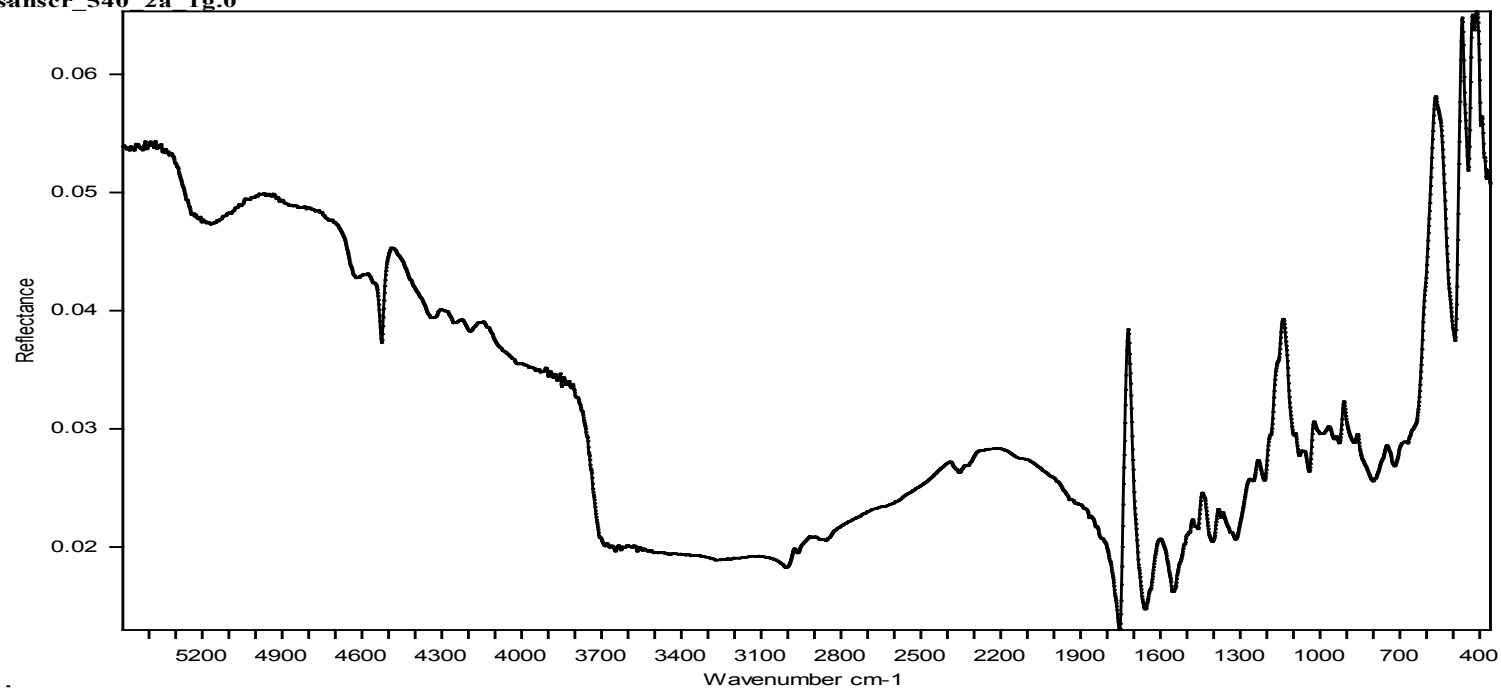
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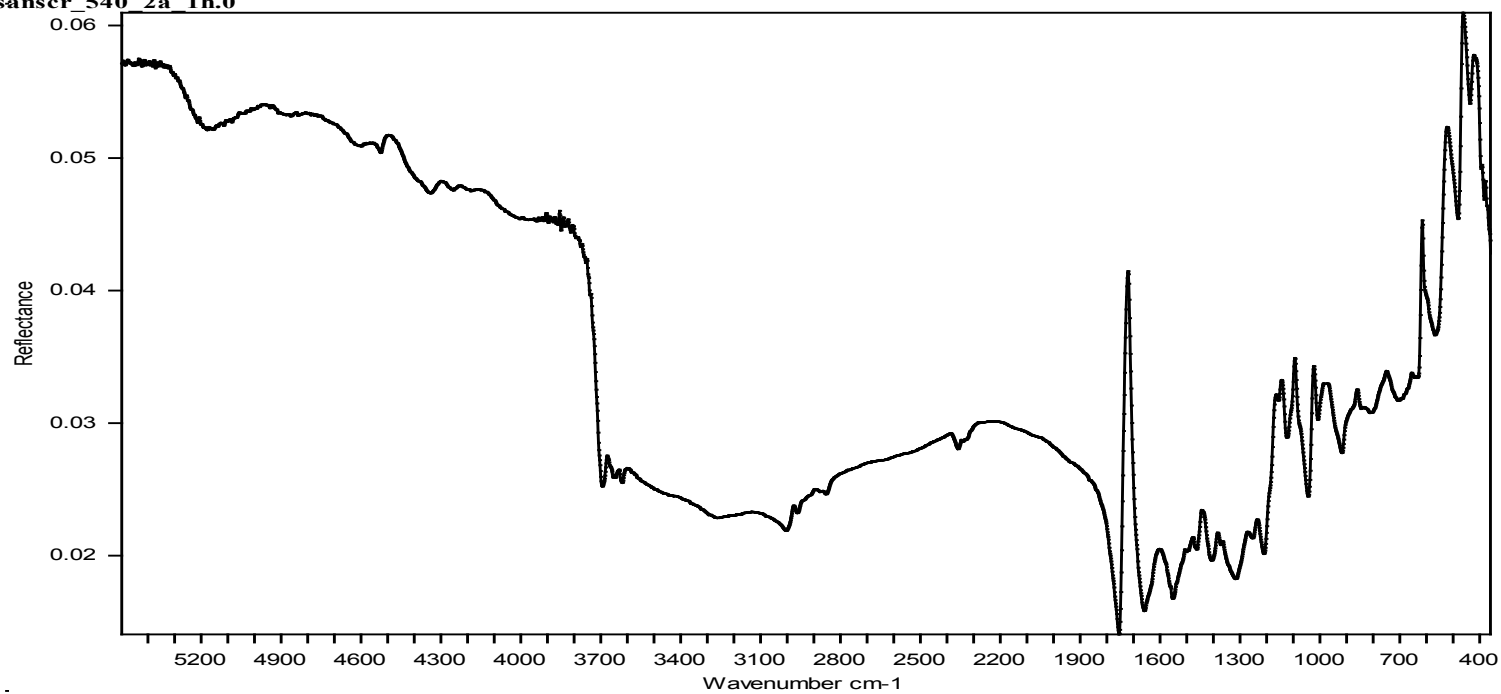
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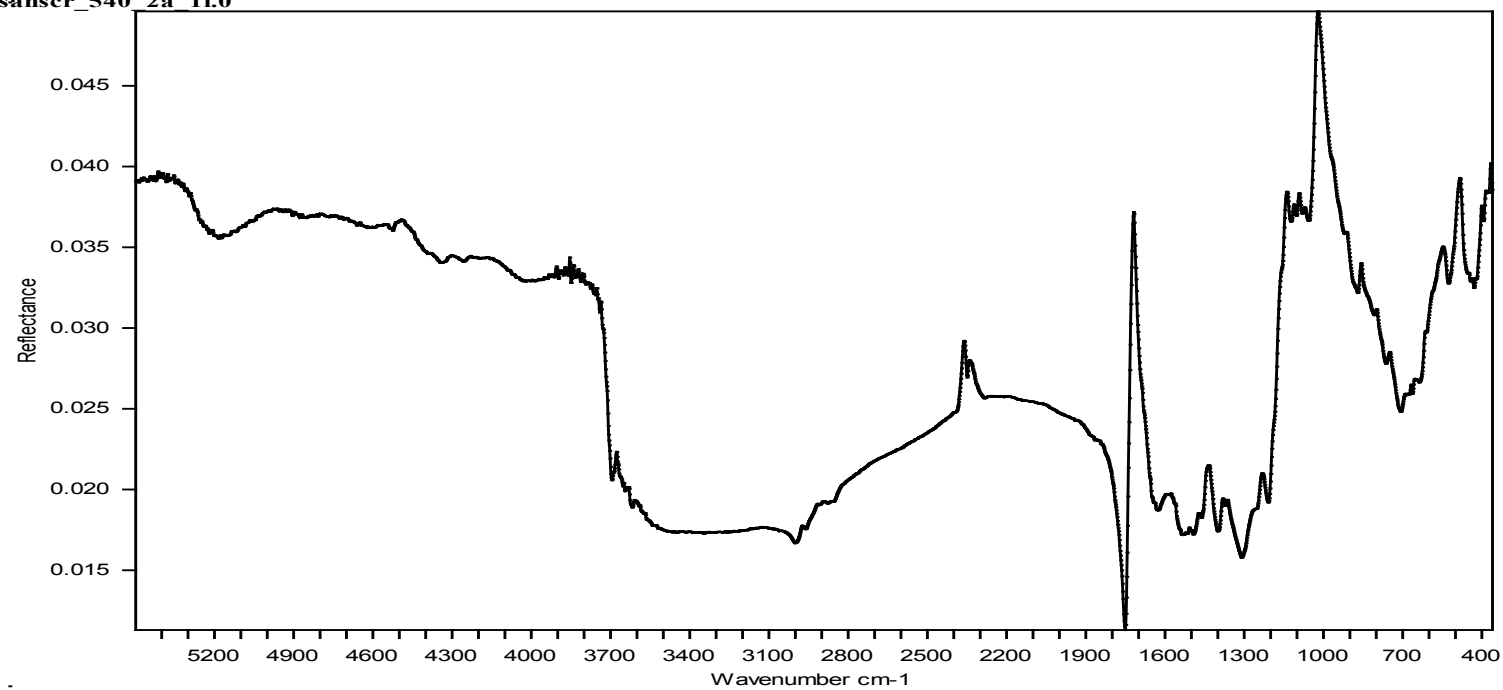
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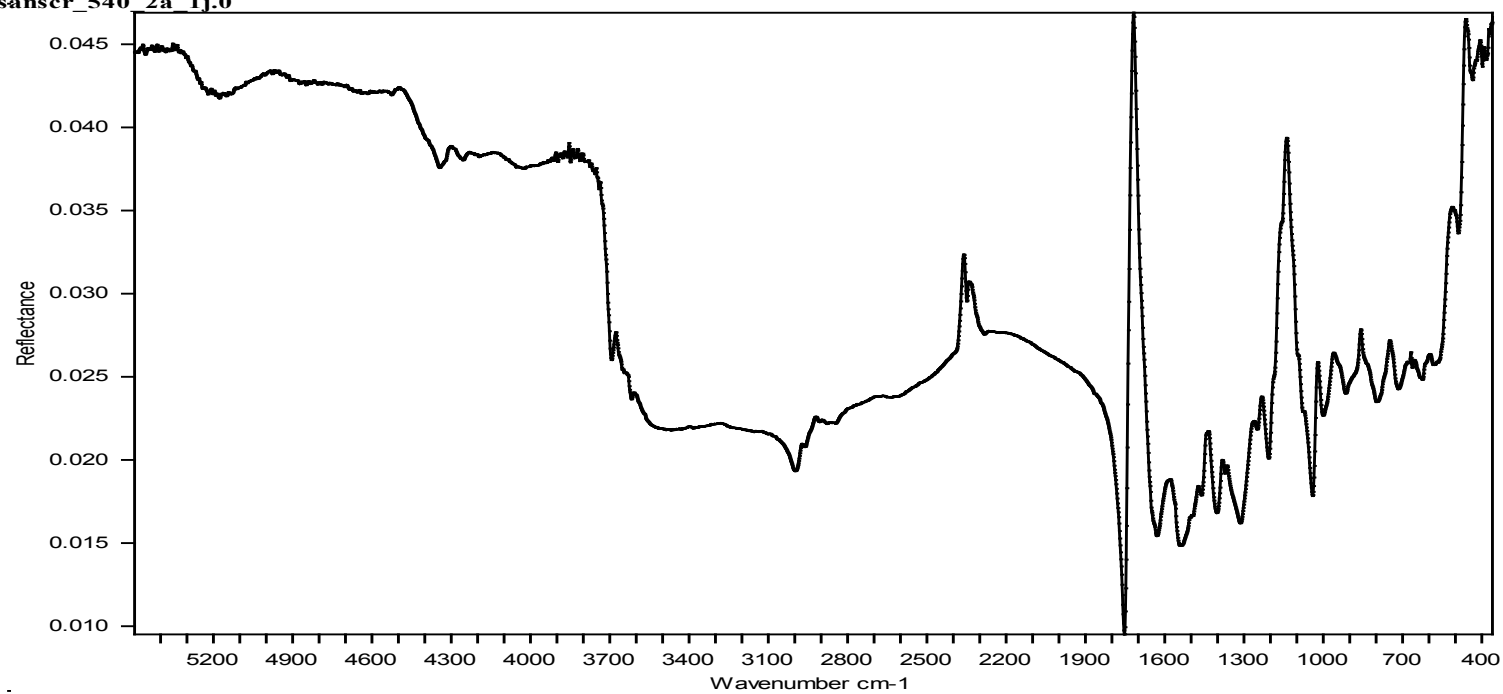
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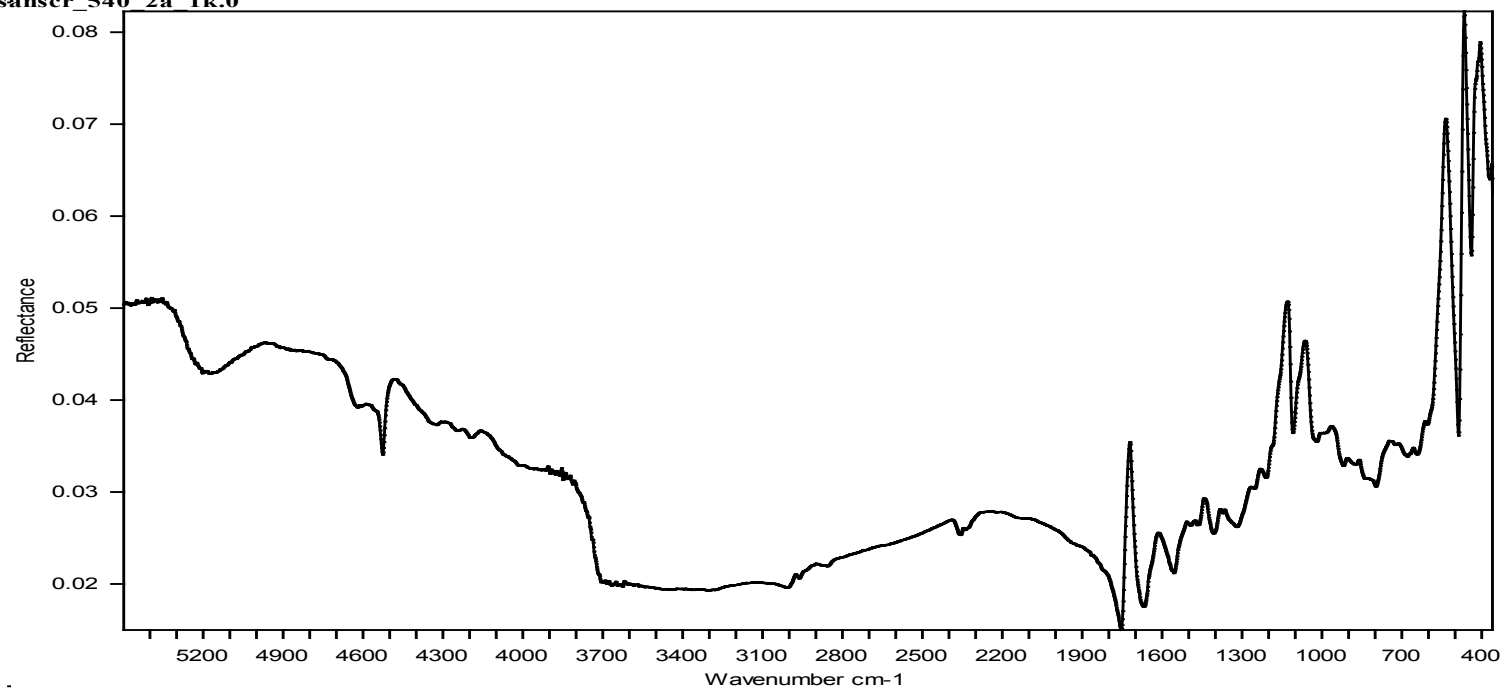
sanscr_540 2a 1i.0



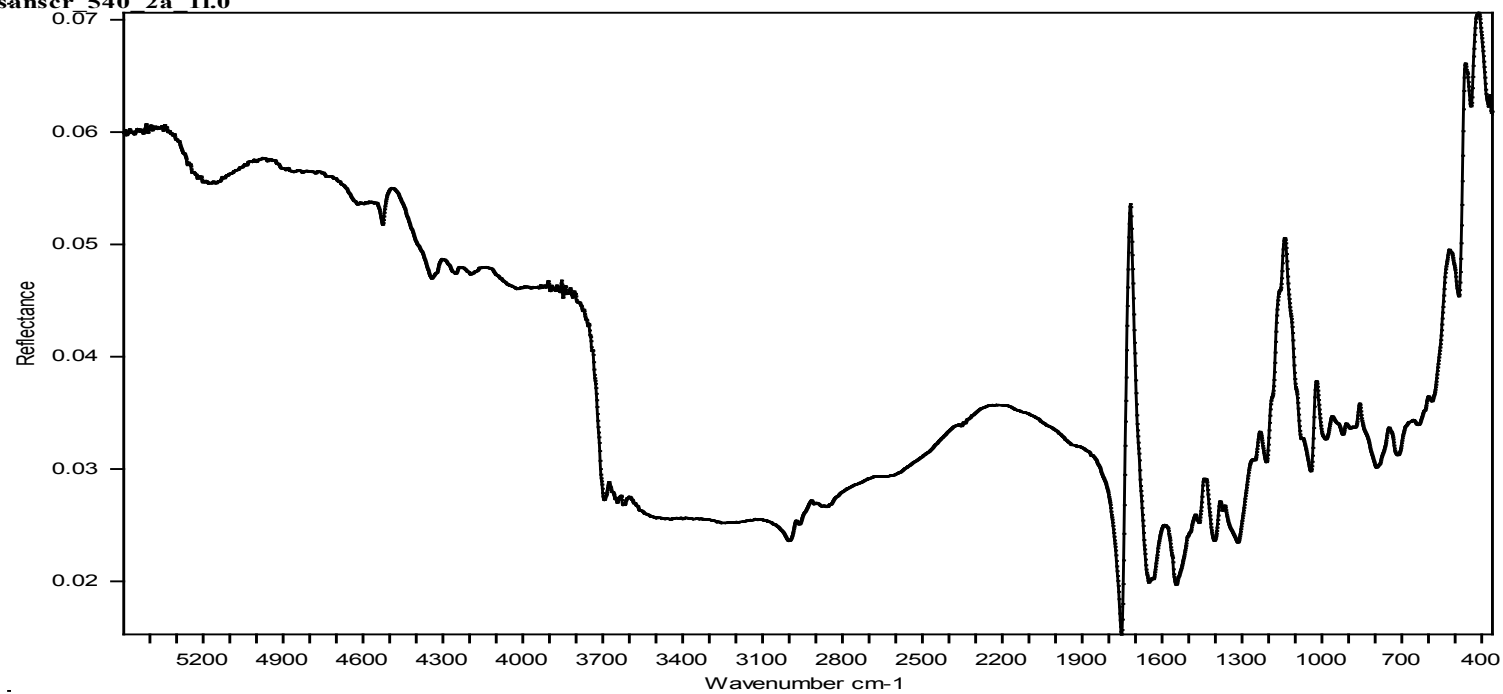
sanscr_540 2a 1j.0



sanscr_540_2a_1k.0



sanscr_540_2a_1l.0



sanscr_540 2a 1m.0

